

## POWDER FILLING APPARATUS AND METHODS

## ABSTRACT OF THE DISCLOSURE

The invention provides methods, systems and apparatus for the metered transport of fine powders into receptacles. According to one exemplary embodiment, an apparatus is provided which comprises a hopper having an opening. The hopper is adapted to receive a bed of fine powder. At least one chamber, which is moveable to allow the chamber to be placed in close proximity to the opening, is also provided. An element having a proximal end and a distal end is positioned within the hopper such that the distal end is near the opening. A vibrator motor is provided to vibrate the element when within the fine powder.

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